

Maven Basics, Web/App Server Basics

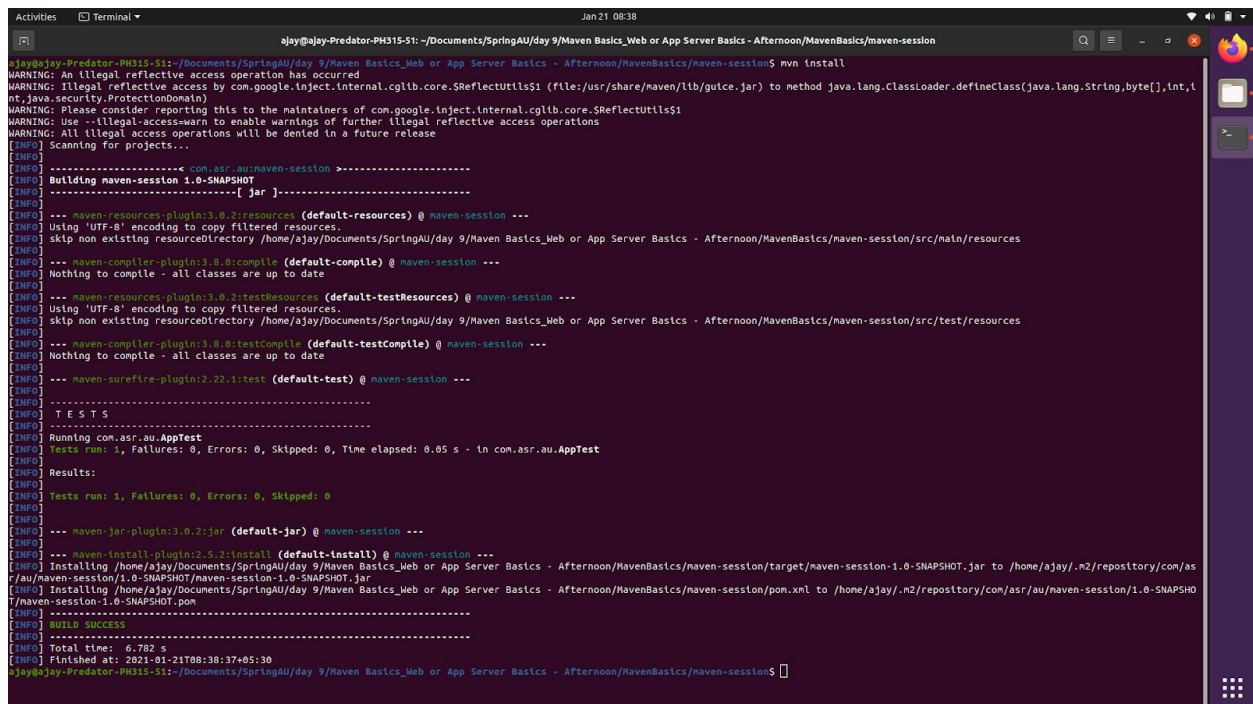
Spring AU 2021

Ajay S

ajay.s@accolitedigital.com

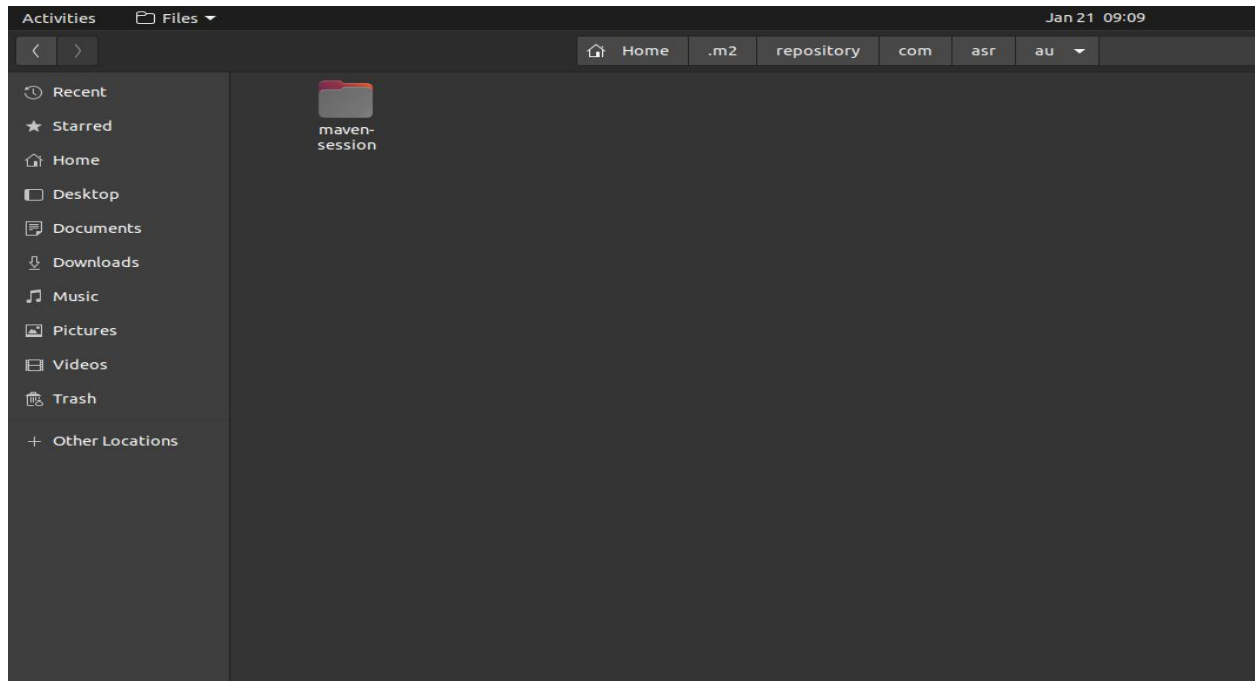
Code added as separate file

1. Perform "mvn install" on the "maven-session" project which was created during the session and share the screen-shots

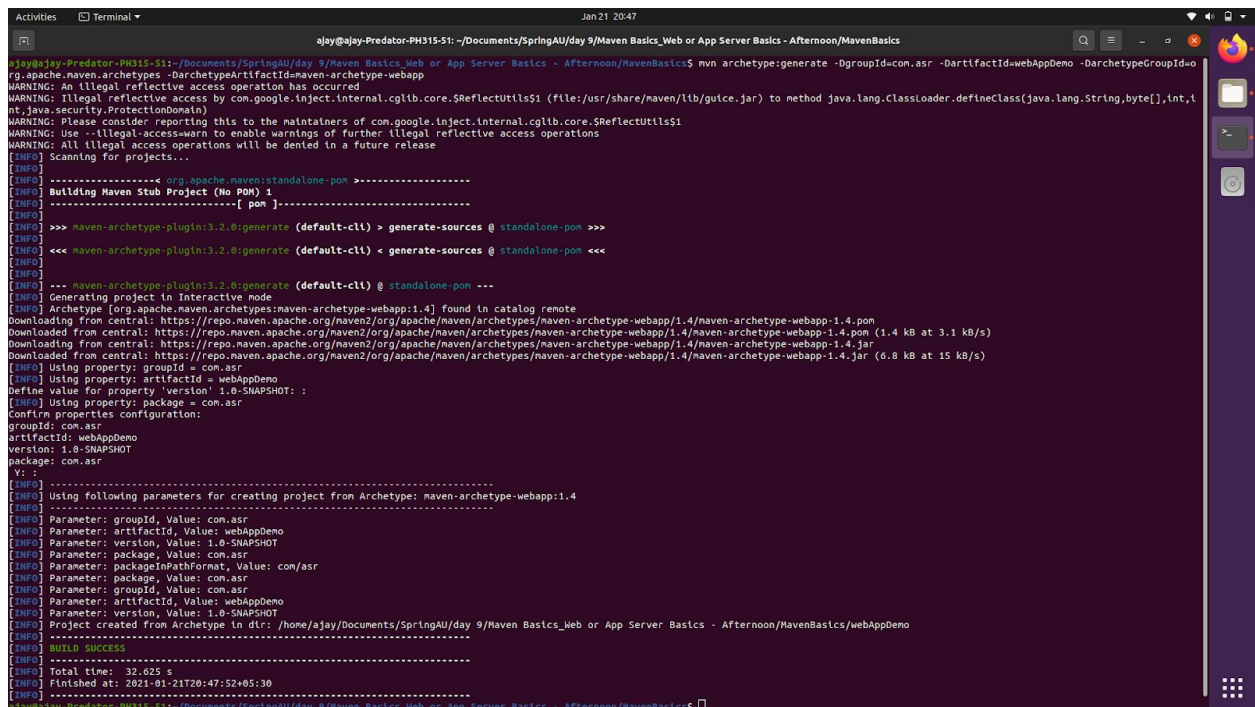


```
ajay@ajay-Predator-PH315-S1: ~/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/maven-session$ mvn install
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$1 (file:/usr/share/maven/lib/guice.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$1
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
[INFO] Scanning for projects...
[INFO]
[INFO] ----- com.asr.au:maven-session -----
[INFO] Building maven-session 1.0-SNAPSHOT
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ maven-session ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory /home/ajay/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/maven-session/src/main/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ maven-session ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ maven-session ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory /home/ajay/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/maven-session/src/test/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ maven-session ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ maven-session ---
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running com.asr.au.AppTest
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.05 s - in com.asr.au.AppTest
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-jar-plugin:3.0.2:jar (default-jar) @ maven-session ---
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ maven-session ---
[INFO] Installing /home/ajay/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/maven-session/target/maven-session-1.0-SNAPSHOT.jar to /home/ajay/.m2/repository/com/asr/au/maven-session/1.0-SNAPSHOT/maven-session-1.0-SNAPSHOT.jar
[INFO] Installing /home/ajay/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/maven-session/pom.xml to /home/ajay/.m2/repository/com/asr/au/maven-session/1.0-SNAPSHOT/maven-session-1.0-SNAPSHOT.pom
[INFO]
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 6.782 s
[INFO] Finished at: 2021-01-21T08:38:37+05:30
ajay@ajay-Predator-PH315-S1: ~/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/maven-session$
```

maven-session inside .m2 repository after mvn install



2. Create a web-app using the archetype plugin



3. In the above-created web-app add a sample servlet
4. Use tomcat maven plugin and run the web-app

Screenshots for 3 & 4:

- a. From Demo Servlet

<http://localhost:9080/webAppDemo/demo>

Demo Servlet WebApp

Ajay

- b. From index.jsp

<http://localhost:9080/webAppDemo/>

Demo Servlet

c. mvn clean package

```
Activities Terminal Jan 21 21:48
ajay@ajay-Predator-PH315-S1: ~/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/webAppDemo
ajay@ajay-Predator-PH315-S1:~/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/webAppDemo$ mvn clean package
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$1 (file:/usr/share/maven/lib/guice.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$1
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
[INFO] Scanning for projects...
[INFO]
[INFO] ----- com.arsij.webAppDemo -----
[INFO] Building webAppDemo Maven Webapp 1.0-SNAPSHOT
[INFO] -----[ war ]-----
[INFO]
[INFO] --- maven-clean-plugin:3.1.0:clean (default-clean) @ webAppDemo ---
[INFO] Deleting /home/ajay/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/webAppDemo/target
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ webAppDemo ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory /home/ajay/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/webAppDemo/src/main/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ webAppDemo ---
[INFO] changes detected - recompiling the module!
[INFO] Compiling 1 source file to /home/ajay/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/webAppDemo/target/classes
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:testResources (default-testResources) @ webAppDemo ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory /home/ajay/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/webAppDemo/src/test/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:testCompile (default-testCompile) @ webAppDemo ---
[INFO] No sources to compile
[INFO]
[INFO] --- maven-surefire-plugin:2.22.1:test (default-test) @ webAppDemo ---
[INFO] No tests to run.
[INFO]
[INFO] --- maven-war-plugin:3.2.2:war (default-war) @ webAppDemo ---
[INFO] Packaging webapp
[INFO] Assembling webapp [webAppDemo] in [/home/ajay/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/webAppDemo/target/webAppDemo]
[INFO] Processing war project
[INFO] Copying webapp resources [/home/ajay/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/webAppDemo/src/main/webapp]
[INFO] Webapp assembled in [37 msecs]
[INFO] Building war: /home/ajay/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/webAppDemo/target/webAppDemo.war
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] -----
[INFO] Total time: 2.187 s
[INFO] Finished at: 2021-01-21T21:48:00+05:30
[INFO]
ajay@ajay-Predator-PH315-S1:~/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/webAppDemo$
```

d. mvn tomcat7:run

```
Activities Terminal Jan 21 21:48
ajay@ajay-Predator-PH315-S1: ~/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/webAppDemo
ajay@ajay-Predator-PH315-S1:~/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/webAppDemo$ mvn tomcat7:run
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib.core.$ReflectUtils$1 (file:/usr/share/maven/lib/guice.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib.core.$ReflectUtils$1
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
[INFO] Scanning for projects...
[INFO] -----< com.asr:webAppDemo >-----
[INFO] Building webAppDemo Maven Webapp 1.0-SNAPSHOT
[INFO] -----[ war ]-----
[INFO]
[INFO] >>> tomcat7-maven-plugin:2.2:run (default-cli) > process-classes @ webAppDemo >>>
[INFO]
[INFO] --- maven-resources-plugin:3.0.2:resources (default-resources) @ webAppDemo ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory /home/ajay/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/webAppDemo/src/main/resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.0:compile (default-compile) @ webAppDemo ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] <<< tomcat7-maven-plugin:2.2:run (default-cli) < process-classes @ webAppDemo <<<
[INFO]
[INFO] --- tomcat7-maven-plugin:2.2:run (default-cli) @ webAppDemo ---
[INFO] Running war on http://localhost:9080/webAppDemo
[INFO] Creating Tomcat server configuration at /home/ajay/Documents/SpringAU/day 9/Maven Basics_Web or App Server Basics - Afternoon/MavenBasics/webAppDemo/target/tomcat
[INFO] create webapp with contextPath: /webAppDemo
Jan 21, 2021 9:48:14 PM org.apache.coyote.AbstractProtocol init
INFO: Initializing ProtocolHandler ["http-bio-9080"]
Jan 21, 2021 9:48:14 PM org.apache.catalina.core.StandardService startInternal
INFO: Starting service Tomcat
Jan 21, 2021 9:48:14 PM org.apache.catalina.core.StandardEngine startInternal
INFO: Starting Servlet Engine: Apache Tomcat/7.0.47
Servlet DemoServlet has started
Jan 21, 2021 9:48:16 PM org.apache.coyote.AbstractProtocol start
INFO: Starting ProtocolHandler ["http-bio-9080"]

```